# Meyer 2-52 Zoysia Japonica

It's Permanent

No More Replanting

Dark Green All Summer Long

Meyer (Z-52) Zoysia is one of the new improved turf grasses which gives hope to the homecomer who desperately wants a good lawn free from Crabgrass. This was developed, tested and released as a superior turf grass for lawns and specialized turf areas by the United States Department of Agriculture and U.S. Golf Association, Green Section. Meyer (Z-52) Zoysia is a revelation to people who walk upon it for the first time. Once established, it produces a dense resiliant and weed free turf. It is noted for its "dream come true" dark green which is so essential for maximum lawn beauty.

Yes, a mature Meyer Zoysia lawn:

- 1-is permanent.
- 2-is constantly improving with age.
- 3—is free from Crabgrass and other summer weeds.
- 4-is free from diseases and insects.
- 5—is extremely resistant to heat and drough.
- 6-thrives in sun or shade.
- 7—is highly wear resistant tests have proven that it will withstand more wear than other grasses; excessive play and recreation will not wear paths through it.
- 8—is a beautiful dark green turf that remains dense and resiliant throughout the year.
- 9—is readily adaptive to overseeding with cool-season grasses for midwinter greenage.
- 10—is excellent for banks, terraces and erosion control.
- 11—requires less frequent mowings thrives under close mowing.
- 12—stands neglect without tolerating invading weeds.
- 13—is an evident luxury, setting off the house and garden more effectively than a Cadillac or Lincoln parked in the driveway.

- 14—saves time by forcing the use of the power mower, an effeciency step never again to be surrendered.
- 15—is a beautiful green color when most cool-weather grasses have turned brown.

All of this and more too—Meyer is completely indifferent to soil composition—will grow in poor soils — sandy soils— clay soils— or "so called" rock beds.

Exclusion of noxious weeds, especially Crabgrass, is now possible with this new superior turf grass. Meyer (Z-52) Zoysia is most aggressive and dominant during the crabgrass season. Once established, this grass is highly resistant to weed invasion due to the tight interwoven mass of turf formed.

Meyer (Z-52) Zoysia forms a beautiful fine textured lawn. It may be cut at a height of from three-eights of an inch to as high as four inches. The backbone of Meyer (Z-52) Zoysia is made up of short stems and tough interwoven stolons. These and many underground rhizomes with their dense mat of roots greatly enhance the wearing and load supporting quality of the sod. Combine this with the upright growth of the blades and one can well imagine the mat of cushiony turf unequalled for wear resistance and resilence.

Meyer (Z-52) Zoysia has withstood severe winter conditions as far north as Canada and thrives in the extreme heat of Southern Florida. It becomes dormant and loses its green color when freezing weather begins in the fall, however it never loses its dense turf quality. It regains its dark green color in the spring when the weather becomes warm. This presumed disadvantage of color loss is easily overcome by the seeding of cool season grasses, such as Merion Bluegrass into the Zoysia turf in the fall of the year.

There is evidence that cool - season grasses thrive better in a Zoysia base than they do alone. The Zoysia base

provides a cooler soil during the summer months and carries the cool-season grass through its most dangerous period in good shape.

Meyer (Z-52) Zoysia is eagerly awaited by home owners and turf workers throughout the country who have regularly experienced "loves labor lost."

Seed of this superior strain of Zoysia is not available. Planting must be done vegetatively. The simplest and easiest method of establishing a Meyer Zoysia lawn is by planting plugs. It is not necessary to work up your present lawn and start with a newly prepared seed bed. Meyer (Z-52) Zoysia can easily be planted into an existing lawn with the aid of special inexpensive plugger-transplanters now on the market.

Zoysia plugs, set on one foot centers into your existing lawn will afford coverage within a period of two growing seasons. In a newly prepared seed bed the time is cut into half, one year from one foot centers. If anything, these figures are conservative.

Sprigging is the more inexpensive method used for establishing Meyer onto a new lawn area. Solid Meyer sod minus soil is shipped for this purpose. The sod is divided into individual plants of one root system and one leaf cluster and planted on twelve inch centers. Meyer may be forced to complete coverage in less than four months by using this method and by giving proper care.

We strongly recommend that part of your trial planting be made in your most troublesome lawn area to prove that this is truly a superior turf grass. The relatively high cost of the initial planting material is in reality an economy because the Meyer not only improves the planted area but will also serve as a nursery for plugging to set additional turf areas.

NORDAN'S GRASS FARMS

"Highest Quality of Superior Turf Grasses"

ABBEVILLE, ALABAMA

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# U-3 BERMUDAGRASS

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U-3 Bermuda is a fine-bladed strain of Bermudagrass which was selected at Savannah, Georgia in 1938. It has grown in the vicinity of Washington, D. C. since then with no sign of winter injury. It has also been grown without winter-kill in the states of Washington, Nebraska and Pennsylvannia as well as in Canada.

U-3 Bermuda has its greatest use in the "crabgrass belt," which is roughly a triangular area cornered on Philadelphia, Richmond and St. Louis. It makes its best growth under the very conditions commonly associated with the worst crabgrass infestations; hot humid weather and plenty of sunlight. It is relatively indifferent to quality of soil.

U-3 provides better turf for golf course tees and fairways, putting greens, athletic fields, playgrounds, park areas and sunny lawns. Its outstanding feature is its ability to form a very wear-resistant turf that recovers rapidly. The turf is drought-resistant and can be mowed as closely as necessary to meet the demands of its use.

Insects and diseases are not yet a serious problem in growing U-3. So far, it has seldom been necessary to apply any insecticides or fungicides. An occasional attack of cutworms and sod webworms has been recorded.

U-3 Bermudagrass seed is not available, therefore it is necessary to plant it vegetatively by either of two methods: (1) plugging or (2) sprigging.

U-3 Bermuda can be planted into an existing lawn by either of these methods. It is not necessary to destroy your present lawn. A handy inexpensive

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lawn plugger is now on the market to make the desired size holes to fit the purchased cut plugs. Holes are made into existing lawn area on twelve-inch centers and the cut plugs are placed into the holes and pressed firmly in place with the heel. The same process may be used in establishing U-3 onto a freshly prepared area or plugs may be hand spaced on twelve inch centers into three-inch deep rows or furrows.

The most inexpensive method of establishing U-3 is by sprigging. The U-3, solid sod less soil, is pulled apart and cut or broken into individual sprigs. The sprigs are placed into rows or furrows two-inches deep and twelve-inches apart and completely covered with soil every twelve-inches in the row.

When planting into an existing lawn, the sod is opened with an edging tool, or by similiar means and the sprigs are placed into the trenches in the same manner as above. Soil should be firmed in place by tampering, rolling, watering or with foot pressure.

Rate of coverage depends primarily on the distance apart the plugs or sprigs are placed. On newly prepared seed beds, plugs placed at one-foot intervals will require from 6 to 8 weeks to form solid turf; plugs placed at two-foot intervals may form solid sod within one growing season.

Plugs placed at one-foot intervals into existing lawns will require one growing season to form a turf; two-foot centers will require a second growing season.

U-3 sprigged on eight-inch centers into a well prepared new lawn area and

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kept free of competitive weeds will produce solid sod in six weeks; on 8 to 12 inch centers from 8 to 12 weeks and on 18 to 24 - inch centers one complete growing season.

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The newly-planted area should be kept moist until the grass is well established. This generally requires watering once a day for the first week, then several times per week for the next few weeks.

U-3 Bermudagrass should be fertilized at the rate of 40 to 50 pounds of a 10-6-4 fertilizer per 1,000 square feet the first year. One-third should be applied at time of planting, one-third three weeks after planting and one-third six weeks after planting.

Overseeding for winter color may be done in the fall with a permanent coolseason grass mixture or with a temporary grass such as redtop or domestic ryegrass.

We wish you success in establishing a U-3 lawn. We stand ready to supply more plugs or sprigs as you want to expand your plantings. U-3 may be planted successfully all summer long, even during the hottest weather.

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# "King of the Lawn Grasses"

The New Miracle Grass

\* Thickest Carpet of Any Grass

The Toughest Lawn Grass

Yes, a mature Zoysia Matrella lawn:

1-is the most beautiful of all lawns.

2—is permanent.

3-is constantly improving.

4-is free from weeds.

5—is free from disease and insect enemies (no more chinch bug trouble).

6-is drough resistant.

7-thrives in shade and sun.

8—stands hard use better than any other grass.

9—stands neglect without tolerating invading weeds.

10-is an evident luxury often referred to as the "rich man's grass".

11—saves time by forcing the use of a power mower — an efficiency step never again to be surrendered.

Zoysia matrellas are native to the Orient where they are used for turf forage and fuel. They were introduced into this country in 1911 for observation and experimentation. Recently, they have been acclaimed as the very best all purpose lawn grass for the South. They grow well in all sections of the Southern part of the United States but are not recommended in areas north of Washington, D. C.

Zoysia matrellas have fine leaves, dark green in color and produce a dense sod which gives one the sensation of walking on a deep piled Persian carpet. One of their most valued characteristics is, after reaching maturity, their ability to eradicate all weeds. They are one of the earliest grasses to begin growth in the spring and one of the last to go dormant in the fall—remaining green much longer than Bermuda.

Matrellas grow to a height of only three or four inches and require few and infrequent mowings. Because of their slow growth, they need trimming from around flower beds only once yearly. Matrellas flourish under the hot sun and thrive under more shade

than any grasses tested at the Alabama Experiment Station. They do well under oaks, elms, pines, walnuts, cedars and most other trees.

Zoysia matrellas are noted for their hardy qualities being tough enough to withstand the continued play of children. They flourish and make a beautiful carpet in poor soil such as sand and clay as well as in areas favored with selected top soil. Zoysias should never be top-dressed with soil after planting.

Since seeds are not available, matrellas must be established vegetatively from sprigs or plugs set on one-foot centers. Complete coverage may be had in less than one growing season if irrigation, fertilization and weed control are practiced.

From our experience, early summer plantings produce the best results; although, many of our customers have reported sprigging and plugging Zoysias every month in the year with excellent results.

### WHAT THE EXPERTS SAY ABOUT ZOYSIA MATRELLA LAWN GRASSES

AUBURN—"A dark green fine leaved lawn grass that will grow both in the sun and shade has been the goal of lawn research workers in the South for years. Zoysia matrella, a grass with these characteristics has been introduced from the Orient by the Department of Agriculture. Zoysia matrella produces a dense sod that feels like a rug. Unlike bermuda, it does not get weedy." (Dr. D. G. Sturkie, Agronomist, A.P.I.)

"ZOYSIA MATRELLA grows in pure red clay beneath pine trees where plantings of other grasses had completely failed; it grows in sand on the seashore where other grasses haven't a chance; it thrives in poor soil and flourishes in good soil. It is wellnamed 'Miracle Grass'". (W. Elbridge Freeborn, Garden Editor, The Birmingham News-Age Herald)

MONTGOMERY — "Walking on the capital lawn nowadays is like walking on a persian rug. That's because of 'Zoysia matrella . . . not only does matrella (the toughest grass ever grown) stand up under shade, wetness or long dry spells, but it kills other grasses.

"During the war, according to Joe H. Abercrombie, capital grounds land-scaper, air pilots found that they could land their heavy planes on turfs planted with Zoysia matrella without breaking through the ground no matter if it were wet or dry.

"In parts of the South it is just as green in the Winter as in Summer—and also holds its rich green hue during Summer droughs." (International News Service)

BELTSVILLE, MD.—"In the United States, no disease has as yet been observed and identified on Zoysia matrella. It is remarkably free from insect parasites." (Dr. Ian Forbes, Jr.—Dr. Marvin Ferguson, Research Agronomists, USGA & USDA)

"ZOYSIA MATRELLA is by far the best known and best dressed of the Zoysias . . . The spongy thick turf of matrella is one of its most desirable and exclusive features . . . No other lawn grass can equal its adaptability to various types of soil and climate." (W. W. Nordan, "Green Thumb")

\* \* \*

"ZOYSIA MATRELLA may be set with good results at any time of the year. If plenty of water is available during the dry Summer months, and a light covering of pine needles or leaves is used for the December-January settings, there is little choice between one month and another." (M. L. Beck of Auburn)

"ZOYSIA MATRELLA is free from all attacks by 'chinch bugs' and Japanese bettle grubs have never been known to invade it, no doubt because the roots are too tough. Once well established, Zoysia needs very little food and much less water than ordinary grasses." (C. W. Baker "Home Garden")

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# Comparative Chart of Our Principle Permanent Lawn Grasses

	Regions	Shade	(3) Tertility	\$ (4)	(5)	(6)	(3)	(8)	(9)	(10)	(11) Dispass	(12) Rate of	(13) Drought
GRASS	Adapted	Tolerance	Requirement	Preference	Established	Requirements	Appearance	Texture	Resistance	Damage	Trouble	Spread	Tolerance
SERMUDA				Well		Very		Extra				7	
South African	I, II	Poor	High	Drained	Sprigs	Frequent	Excellent	Fine	Fair	Variable	Variable	Fast	Fair
BERMUDA				Well		Very			Verv	Seldom	Seldom	4	Very
Tiffine	1, 11, 111	Poor	High	Drained	Sprigs	Frequent	Unsurpassed	Fine	Good	Serious	Serious	Fast	Good
BERMUDA				Well		Very		Medium	Very	Seldom	Seldom	1367	Very
Tiflawn	1, 11, 111	Poor	High	Drained	Sprigs	Frequent	Excellent	Fine	Good	Serious	Serious	Fast	Good
BERMUDA				Well		Very		Medium	Very	Seldom	Seldom		Very
0.8	I, II, III	Poor	High	Drained	Sprigs	Frequent	Excellent	Fine	Good	Serious	Serious	Fast	Good
BITTER-BLUESTEM		Very		Low				Very		4	Seldom	1	Fair to
(Improved St. A.)	I	Good	Moderate	Soils	Sprigs	Frequent	Good	Coarse	Fair	Serious	Serious	Moderate	Good
CHATIPHOR					Sprigs					Seldom	Seldom		
Chinese	I, III	Medium	Low	Little	and Seed	Occasional	Good	Coarse	Fair	Serious	Serious	Moderate	Fair
ST. AUGUSTINE		Very		Low									Fair to
Common	I	Good	Moderate	Soils	Sprigs	Frequent	Good	Coarse	Fair	Serious	Serious	Moderate	Good
ZOYSIA JAPONICA					Sprigs					Seldom	Seldom		Fair to
Common	1, 11, 111	Good	Moderate	Little	and Seed	Frequent	Fair	Coarse	Good	Serious	Serious	Moderate	Good
ZOYSIA JAPONICA										Seldom	Seldom		Fair to
Meyer	I, II, III	Good	Moderate	Little	Sprigs	Frequent	Excellent	Intermediate	Good	Serious	Serious	Moderate	Good
ZOYSIA MATRELLA		Very				-	JUL OCE	Real	Very	Seldom	Seldom		Fair to
1	1, 11	Good	Moderate	Little	Sprigs	Occasional	Excellent	Fine	Good	Serious	Serious	Slow	Good
ZOYSIA MATRELLA	¢	Very		C		007	000000	Ŏ	Very	Seldom	Seldom		Fair to
	1, 11	Good	Moderate	Little	Sprigs	Frequent	Excellent	Fine	Good	Serious	Serious	Slow	Good
Korean Velvet	I	Medium	Moderate	Little fr	TC Sprigs 1 U	None To	Cessicelless O	Extra	Fair	Seldom Serious	Seldom Serious	Slow	Poor
ZOYSIA Emerald (New Hybrid) I. III	I. III	Very	Moderate	Little		Occasional	Theurnassed	Fine	Very	None	None	Moderate	Very
		0000	Avn Con Can	TOTAL	Source	Occasional	Onsul passed	E THE	GOOd	MINORIA	PHOMIT	TATOURIALE	G000

We do not recommend Carpet, common Bermuda, Bahia grasses or Dichondra for lawn and turf use. Each is less desirable than the better grasses listed above, more limited in use, and more difficult to manage. Anything saved in initial establishment cost of such ground cover will be lost in one year if adequately managed to produce

- 1. Area I is the southernmost area of the United States, including the Atlantic Coast from Charleston across the lower half of Georgia and along the Gulf of Mexico, extending inland 100 to 200 miles on through Texas. Area II extends from Norfolk southwestward through the Carolinas, lower Tennessee across into Southwestern Oklahoma on the north, and down to the Area I lines on the South. Area III covers the remainder of Oklahoma, across middle Missouri, most of Illinois, Indiana and out to the Atlantic Coast through the lower part of New York on the north, with Area II being the southern boundary. All areas have exceptions, such as mountains where the cool season grasses perform satisfactorily in the summer, and river and lake areas where winter temperatures are held up by large bodies of water.
- 2. Shade tolerance is extremely important in selecting a grass. Thought should be given to future shading when landscaping new lawns. All of the above grasses perform satisfactorily in full sun, but vary widely in degrees of shade that they will tolerate. Whenever possible, one grass should be used for the entire lawn.
- 3. Fertility requirement is that amount necessary for best performance.
- 4. All above grasses perform well on soils ranging from slightly acid to neutral. St. Augustine and Zoysia matrella will tolerate more salt water spray than the others.
- 5. Most of the recommended grasses either do not seed true to type or else seed are not commercially available. Sprigging is the surest and most economical method of establishing the better turf grasses.
- 6. Mowing requirement is based on that required for top performance and beauty of each particular grass. All grasses should be mowed often enough that the amount changes not exceed the amount remaining. The finer textured grasses do best

- mowed at heights of from one half to one inch while the coarser grasses should be mowed at heights of from one to two inches.
- 7. Appearance rating is based on a particular grass planted in an adapted area and properly maintained. If these requirements are not met, then appearance rating would be incorrect.
- 8. Texture is rated on visible leaf and stem structure.
- 9. Wear resistance of the above grasses is satisfactory for average lawn use, but becomes extremely important in the case of institutional lawns, golf courses, athletic fields, etc.
- athletic fields, etc.

  10. & 11. Prospective insect and disease damage to any grass is difficult to appraise, except in the case of Common St. Augustine, which is highly susceptible to chinch bug and fungus. Most other grasses are deemed superior because they have more resistance to both insects and diseases, however all grasses are subject to damage from army worms.
- ing warm weather will vary from 8 weeks on the "fast growers" to a year or more on some of the Zoysias. Slow growth is one of the desirable characteristics of a good permanent lawn grass, and home owners will do well to reconcile themselves to spending one to two years in perfecting their lawns.
- 13. Drought tolerance is an important factor that many people overlook in selecting a lawn grass. Supplemental watering is required at times for top performance on all grasses and is especially necessary during the establishing period.

# Comparative Chart of Our Principle Perment Laure Grasses

Emersia (New Hybria)	1, 111	Good	Moderate	Little	eginge	Осезвіонаї	Unsurpassed Fine	Fine	Very	Моде	Моне	otorobolif	Very
AIBYOS		Very	310 12 10 000		igi Dig		CMSellens >	200	Tis'H	22	25.	woll	Poor
-	1-4	Medium	Moderate	Little F. W.	The distribute of	P. OT SHOW	THE CASE OF	a chi		Seldom	1		COOC
Common No. 18521	11 11	Goog	Moderate	PATTE	Sairige Sairige	Prequent	Excellent	h ine	Cooq	Serious	Serions	World	Fair to
AJJERTAM AIBYON	•	Very	And the second s			C C But is		CITA	2000	SHOUSE	-	wolk	Good
- 5	II II	Good	Moderate	Little	ggirda	Occasional	Excellent	Fine	Very	Seldom		1	Fair to
AJJERTAM AIBYON		Very		And the second s		こののカラーと	中の一人のです	Paris Inchia	- 1	SHOULE	SUOTISC	Moderate	Cooq
i	I'II'II	Good	Woderate	Little	A Spinsta		W. WOLLOW W. W. S.	Targetonarotes		Seldom	Mobile 2		Fair to
ADIMOGAL AIRYON			The second secon	A THE RESIDENCE OF THE PARTY OF		The state of the s	4. 037	Screo	DOOG	SUOT196	Serious	Moderate	Cooq
Common Remains	и и и	Goog	Moderate	Little	Sprigs and Seed	FTPCOMPN*	222	Consus	2	Seldom	Seldom	O DE LONGE	Fair to
2		Good	Moderate	alios	Sprigs	Frequent	Cooq	Coarse	F.S.I.	Corione	Conform	Moderate	Fair to
CHINOSO	1, 11	Medium	row	Little	Sprigs and Seed	Оссавіопа	Cooq	Coarse	F. S. F.	Seldom	Seldom	otomobo M	1 1 2 a
(.A.38 bevordmi)	personal distribution of the second	Goog	Moderate	Soils	asinda	Krequent	Cooq	Very Coarse	T. Co.	0.000	Seldom	O tomobo M	Tair to
D. S. C.	T' II' III	Poor.	Neit	Drained.	Sprigs	Very	Excellent	Medium Fine	Very	mobles	23	H 354	Very
TWENT	I, II, III	Toor	High	Drained	agirda	Frequent	Excellent	Medium	Very	Seldon	Seldom	O S	Vaery Rode
AGUMSSE	1, 11, 131	P001	High	Drained	Sprigs	Frequent	Бэгаватиги	Fine	Good	Servious	mobile?	Jast	Cooq
SE MAN	44	TOOT	4.5. A.	ognis id	SALINC	reduent	Excellent	Fine	Tight	Variable	Variable	1287	Fair
AGUMREE RESIDENT AFLOS		ьооз.	High	Well	Sprigg	Very		Extra	Designation of the second	11	alguo.ii	Spread	1016721168
90 80 80 80 80 80 80 80 80 80 80 80 80 80	anolgsR betqsbA	Shade Folerance	Fertility Requirement	(4) Soll Preference	(5) wow Established	(6) Mowing	(Y)	(8)	Wear Wear		(11) Ossessio	(SI) Rate of	(13) Drought

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JAN 23 1956

# Manie TURF PLUGGERS

INTRODUCE NEW GRASSES

REPAIR WORN AREAS

- 1. Use the Turf-Plugger to cut openings in the area to be planted.
- 2. Use Turf-Plugger to remove uniform rounds of sod from the nursery.
  - 3. Plant plugs of new turf. These cut openings to fit our turf plugs.

Use this easy planting method on athl \$5.50 Postpaid fields, tees, fairways and lawn areas. It is a quick and dependable way to establish new grass even on areas that are kept in use

A. 2-inch Economy Turf Plugger. A contineous operating plugger that removes a round of sod two inches in Postpagiameter and two inches deep. Each newly made plug pushes the previous plug from the cutting cup. Cutter is made of hard tempered seamless steel.

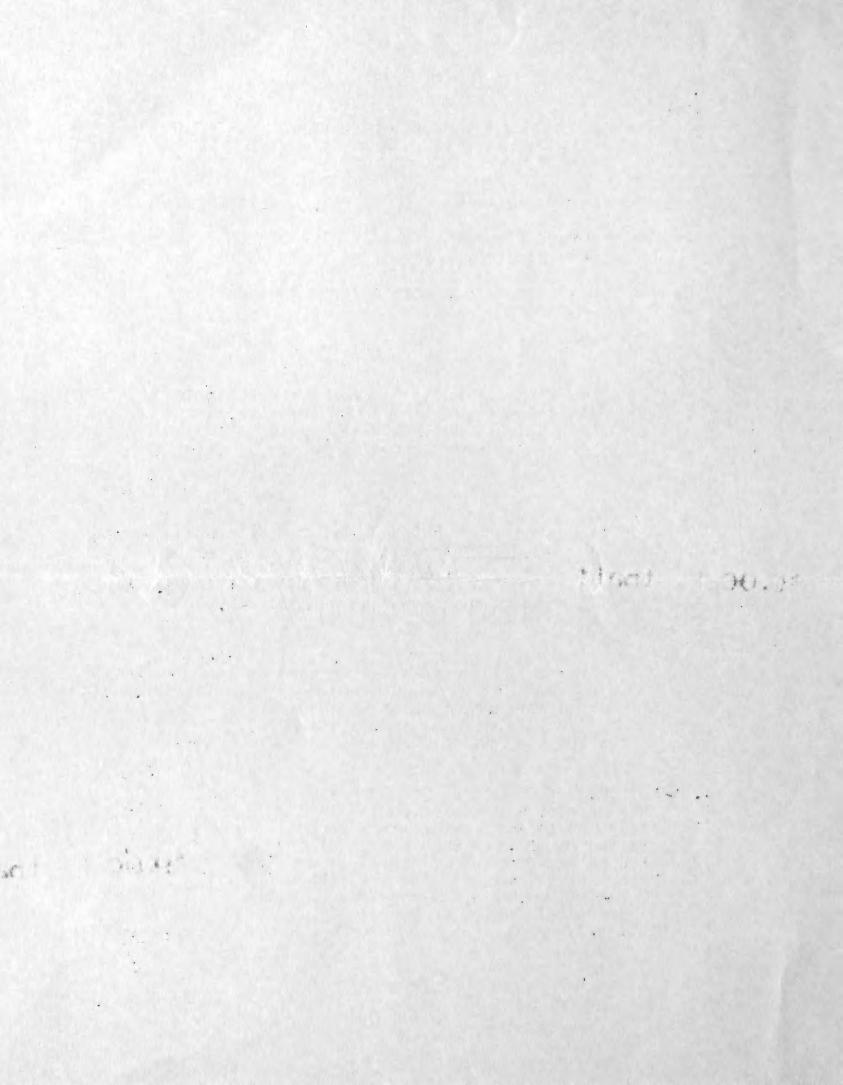
B. 2-inch Cylinder Turf-Plugger. This Turf-Plugger removes a round of sod same size as plugger above. The cutting cup is grooved to grip roots firmly. As plugs are cut, they are pushed up into tubular magazine, which holds a stack of 20 plugs.

C. 4-inch Turf Plugger. This Turf-Plugger removes a round of sod 4" in diameter and 3" deep. The plugs cannot be stacked up in it. Each plug must be ejected as it is cut. Larger plugs do not kick out as they do with the economy 2" Turf-Plugger. They require less careful attention to become established.

Postpaid

NORDAN'S GRASS FARMS

ABBEVILLE, ALA.



There are three distinct methods of establishing our best turf grasses; solid solding, plugging, and springing. Jolid solding means that the entire solid sod is lifted from one spot and placed solidly upon another prepared but bare aron, thus obtaining a beautiful lawn in the shortest possible time. Plugging is the process of placing sod cores two inches or larger into established undesirable or new lawn areas. Holes are made in the area to be planted with a special plugging tool and the desired grass plugs of sod with soil are placed into these holes and later cores. Sire ins is the rest which median are the second only method.

\* JAN 23 19

First of all, let us become familiar with the terms used in turf increstor. The restoration to the parent plant. A stolon cut or pulled from the plant is called a sprig. When the sprig is divided at sections between the root joints, each division with roots is known as a rootlet or rooting. The process of planting sprigs or rootlets is known as sprigging.

stolon or sprig when seperated

Immediately upon arrival, your flottles stock should be removed from the packing and washed throughly as as to remove all safetying asisture. This grass may be kert in good condition for several days by as ging it partially submerged in clean cool water. This water should be changed every other day until the most rial is planted. Your grass stock may be kept over a longer peroid by preparing a soggy mud puddle two to three inches does and treasing the sod into the and. Wash the men from the leaves by sprinkling with water. Keep the sod lightly shaded and moist until it can be planted.

Before planting, soil should be well prepared, fortilized and raxed to the desired slope. Rows should be laid off at a distance of one-foot apart or closer and should follow the contour of the area. The furrows should not be over three inches deep and can be made with a small garden plow, edge of hoe or similiar instrument.

When your area is prepared for planting, take the grass stock and severals the last deposits by pulling the spring and stolleds. With the aid of a knife, acissons or submers, divide the applies into individual rootlets. Let cach division days into a container of fresh water. When this operation is completed, you are ready to start planting.

Best results are intained by using one or more trans or proced of two persons. One member should drop the rottlets every tradve income or closer into the open furrows. The other member kneeling can with his left hand place the rootlet upright and well into the bottom of the furrow. While holding the plant upright, move the loose soil with his right hand so as to cover the root system and one-half of the leaf surface. It is best to carry from rows at one time and work alternated from left to right and vice-versa.

## (CONTINUED)

When a good sized area has been planted, water the area throughly. At this time one can, do a very good job of leveling the irregular places with the force of the water stream from the garden hose. As soon as the area is firm enough to walk upon, check the entire area for rootlets that might have been uprooted. Push these back into the wet soil with the end of a yardstick or similiar object. KEEP THE AREA NOIST AT ALL TIMES FOR A PERCID OF AT LEAST THREE WEEKS.

### TOOLS NEEDED

- 1. Garden clow, hoe or similiar instrument.
- 2. Wide fine toothed rake
- 3. Snippers, scissors or knife
- 4. Container for holding water and plants
- 5. Carrying container for holding moist plants
- 6. Garden hose with nozzle

### WORKERS NEFDED

1. One or more teams of two persons.

CAUTION: KEEP PLANTS MOIST AT ALL

# DOWFUME MC-2 FOR FUMIGATING VEGETABLE GARDENS, FLOWER AND SEED BEDS, LAWN AREAS TO BE SODDED, SMALL AREAS OF NUT GRASS IN CROP LAND, ETC.,

Dowfume MC-2 contains 98 percent methyl bromide and 2 percent chloro-picrin (tear gas). It is a liquid that comes in one-pound cans. It is highly volatile and evaporates rapidly when the can is pungtured. It must be applied under a plastic cover that is air tight, the margins of the cover sealed into furrows to make an airtight seal. Treatment requires 24 to 48 hours and the land is ready for use 48 hours after the cover is removed. The usual rate of application is one pound to 100 square feet of surface.

No one should attempt to use it until he has read Dow Chemical Company's leaflet on its use or been instructed

by one who has had experience in using it.

USES: If properly used, it will completely kill nut grass, Bermuda grass, Johnson grass, other grasses and weeds and most weed and grass seeds. It gives excellent to perfect control of nematodes, and other soil-borne animal pests, and many of the more serious soil-borne disease organisms. Better stands of plants and better growth usually follow its use.

PERSONAL EXPERIENCE AND OBSERVATION AT AUBURN: In my own garden, which is somewhat sandy, I got a perfect kill of nut grass and Bermuda grass, along with the other things, where the soil had not been plowed or stirred for two or three months and had been rained on many times. I was testing to see if fresh preparation of the soil was necessary for this soil type. The cover was left in place for 38 hours before aerating. This might not work

on a stiff clay soil. Anyone willing to risk a few dollars could test it on his own soil as I did.

SUPPORTS FOR THE COVER: I do not want any boxes, boards, iron pipe or anything that might rust or tear the plastic cover. Empty fruit jars laid flat, or cold drink bottles set on the little ends, or small "pillows" or piles of straw, leaves or grass will support the cover a few inches above the ground with little or no danger of injury to the cover, either in placing it, removing it or if the wind blows or rain falls while it is in place. This is very important. These supports can be spaced two or three feet apart along the edges and down the center of the cover. Instead of a trough or pan into which to empty the liquid, I prefer a fairly large glass jar with the top tilted slightly upward. The end of the saron tube is weighted and placed in the jar before the cover is laid in place. I place the jar about the center of a 13 by 33 ft. cover.

SIZE OF COVER: A cover 13 by 33 feet will treat about 300 square feet at each setting, is not difficult for one person to handle and requires only one injection point for perfect results. They come from the factory in lengths of 100 and 150, feet, and in several widths. Our company usually buys in 13 by 100-ft. size and cuts them to suit the customer. A cover 13 by 33 retails for some \$17.50 or more and a jiffy applicator for around \$5.00. They will last for several years and can be used over and over if well cared for. The MC-2 chemical is usually used at the rate of a one-pound can to 100 square feet—three cans for each setting of a 13 by 33 cover. Retail price will usually be

85 cents or more per can.

The cost is a little high but there is nothing else so satisfactory for nut grass and for old gardens that have become heavily infested with nematodes, wilts, rots and other soil-borne animal and disease organisms. Its use is spreading

where it has been tried. Gardeners who are interested should ask their local merchants to write us at one of the addresses given. We do

not sell retail but through local merchants.

### **ERADICATION OF NUT GRASS**

Dowfume MC-2 will quickly exterminate nut grass and the land can be planted or sodded 48 hours after treatment. But the process is tedious and expensive. This treatment can only be justified on small areas and where the dollar value of production expected from the land is high. Small home gardens, plant beds, lawn areas and nursery

areas can justify the labor and expense. Field crop areas cannot.

Several applications of 2,4-D, Amine form, will kill nut grass. It is said that a strength of 4 tablesoons to a gallon of water, applied to about 400 square feet, will kill nut grass in zoysia sod without injury to the zoysia. Bermuda grass will be burned by this strength, but will soon recover. New applications need to be made before new nut grass growth produces seed pods. It nut grass is killed before seed pods form, there will probably be no new nuts grown under ground. Treatment should be continued throughout one year, and again the second year as long as sprigs of nut grass come through the sod of zoysia or Bermuda.

Use of 2,4-D in lawns requires great care to prevent injury to shrubbery and to the neighbors' premises. The amine form gives off little or no vapors or fumes. Spray drift is dangerous to many plants. To reduce danger of drift, use low pressure, 15 to 25 pounds, and spray when the air is still. Holding the spray nozzle close to the ground and directing the spray straight downward will prove very helpful. A large fly sprayer can be used for small areas. Use

a slow stroke to produce a "sprinkle" not a fog or mist.

A north-eastern species of nut grass can be killed completely by use of Sodium TCA-90 percent; but its use is not satisfactory against the species we have in the south. We are still waiting for a satisfactory field-scale nut grass remedy.

PUBLISHED THROUGH THE COURTESY OF

# AGRICULTURAL SULPHUR & CHEMICAL COMPANY

MONTGOMERY, ALA. Box 626; Phone 3-1822 DOTHAN, ALA. Phone 3-7530

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Mimeograph Paper No. 78

May 1952

GEORGIA COASTAL FLAIN EXPERIMENT STATION. Tifton. Georgia

Information based on results of practical experiments in agriculture for press release and distribution to farmers.

TIFTON 57 BERMUDA GRASS FOR LAWNS, ATHLETIC FIELDS, AND PARKS 1/

G. V. Burton and B.P. Robinson 2/

Tifton 57 is an aggressive, disease-resistant hybrid Bermuda grass that has proven its superiority for lawn and turf purposes from Texas to the Atlantic and from Tennessee to Miami. This hybrid was developed co-operatively by the U.S. Department of Agriculture and the Georgia Coastal Plain Experiment Station. When compared with common cotton-patch Bermuda or that grown from seed it:

- 1. Spreads faster and becomes established quicker after sprigging.
- 2. Makes a denser turf which means fewer weeds.
- 3. Tolerates more punishment and wear, making it better for football fields and playgrounds.
- 4. Stays green longer due to its greater disease and frost resistance.
- 5. Will be injured less by winter ryegrass and will recover faster when ryegrass goes out in the spring.
- 6. Requires less fertilizer.
- 7. Is shorter and looks better with infrequent mowing. (It should be mowed as often, however, to make high-quality turf.)

Like common Bermuda, Tifton 57 will not do well in shade and should not be planted in shady lawns. It can be grown under light shade if mowed less frequently and cut higher. It will also be as hard to keep out of flower beds, walk ways, gardens, etc., as the common type. Tifton 57 is very drough resistant and will do well on dry solls if properly fertilized. Like other Bermudas, Tifton 57 will suffer if not provided sufficient plant nutrients.

<sup>1/</sup> Co-operative investigations at Tifton, Georgia, of the Division of Forage Crops and Diseases, U.S.D.A., the Georgia Coastal Plain Experiment Station, the U.S.G.A., and a number of Southern Golf Associations.

<sup>2/</sup> Principal Geneticist, U.S. Department of Agriculture, and Turf Specialist, Georgia Coastal Plain Experiment Station, Tifton, Georgia

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GEORGIA COASTAL PLAIN EXPERIMAT STATION
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Information based on results of practical
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B.P. Robinson and Clenn W. Burton\*

Golf course superintendents have continually searched for a good fine textured Bermuda grass. The establishment of experimental turf plots at the Georgia Coastal Plain Experimental Station in 1947 marked the first milestone for the selection, breeding, and testing of Bermuda grass types for turi purposes. During this time over 136 types of Bermuda grasses have been tested under both golf green fairway management. By 1949 and 1950 it was evident that a hybrid Bermuda, Tiflawn (Tifton 57 Bermuda grass) produced at the experiment station, was superior to common seeded Bermuda grass and several selections from golf courses in the Southeast. Tiflawn, however, still fell short of the exacting requirements of the golfers for a very fine textured Bermuda. In an effort, therefore, to produce a finer textured Bermuda while still retaining desirable qualities, Tiflawn, Cynodon dactylon, and several other selections of common Bermuda were hybridized with a very fineleafed disease susceptible Bermuda from South Africa, Cynodon transvaalensis.

Eighty-nine hybrid plants, obtained from the crosses, were planted in the field for observation in 1949. Several of the plants appeared to be inferior turf types and were discarded. The most promising hybrids, however, were planted in the experimental turf plots. Such comparative ratings as disease resistance, sod density, fineness, playing quality, weed resistance, aggresiveness, etc., over the past two years have indicated that the hybrid plant carrying the number 127 is a superior turf type. This Bermuda produced by crossing Tiftlawn with South African Bermuda grass has become known as Tifton 127 Bermuda--Tiffing. Pirce it does not produce viable seed, it must be propagated vegetatively.

Tiffine has a distinctive medium green color, is aggressive, disease resistant, not injured by overseeding with ryegrass, and is much finer in texture than Tiftlawn, common seeded Bermuda, or most other types of Bermuda grass used on putting greens. Commercial sources are available. Observations to date indicate that Tiffine is well adapted throughout the Southeast. It is being grown satisfactorily on new greens in the coastal area and as far north as the Ohio River Valley.

Although Tiffing is a great improvement over common Bermuda for putting greens, the Bermuda grass breeding work is being continued in the hope that even better Permuda may be found.

\*Turf Specialist and Principal Geneticist, Georgia Coastal Plain Experiment Station and U.S. Department of Agriculture, Georgia Coastal Plain Experiment Station, Tifton, Georgia

